



Ashish Biswas

Date of birth: 03/11/1998

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Gender: Male

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🌐 <https://www.researchgate.net/profile/Ashish-Biswas-4>



europass

ABOUT MYSELF

This is Ashish Biswas. I had completed my B.Sc. in Agriculture from Patuakhali Science and Technology University, Dumki, Patuakhali 8660. I am a very passionate agriculture researcher specializing in plant morphology, biochemistry, and soil nutrient dynamics, with proven skills in statistical data analysis and scientific report writing. Experienced in academic projects on rural development and youth engagement, seeking to advance sustainable farming solutions through innovative research and mentorship.

WORK EXPERIENCE

● **Mr. Rakib Rasel, Center for People and Environs** Dhaka, Bangladesh

Website: <https://cpe-bd.org/>

Research Enumerator

28/03/2024 - 09/04/2024

- To collect data from household and field labels (Rajshahi, Chapai-Nawabganj)

● **British American Tobacco (BAT)** Dhaka, Bangladesh

Website: <https://www.batbangladesh.com/>

Internship

20/04/2023 - 19/10/2023

- To participate in different kinds of Training, To participate in different kinds of meetings, and To visit the factory

EDUCATION & TRAINING

● **01/09/2024** Barishal, Bangladesh

● **MS in Genetics and Plant Breeding** Patuakhali Science and Technology University, Dumki, Patuakhali-8660

- Basic Knowledge About Genetics and Plant Breeding (Fundamentals of Genetics, Principles of Genetics)
- Advanced Knowledge About Genetics and Plant Breeding (Principles of Biotechnology and Genetics Engineering, Stress Breeding)
- Basic Knowledge About Data Analysis (Data Analysis and Experimental Design)

Website: <https://pstu.ac.bd/> **Field(s) of study:** Genetics and Plant Breeding |

Final grade: 3.82/4.00 | **Level in EQF:** EQF level 7 | **Type of credits:** Bangladeshi Credits System | **Number of credits:** 42 | **Thesis:** Rapid Identification of Phosphorus Use Efficient Rice Via Hydroponics

● **08/01/2018 - 15/01/2024** Barishal, Bangladesh

● **B.Sc. Agriculture (Hons.)** Patuakhali Science and Technology University, Dumki, Patuakhali-8660

- Agronomy, Horticulture, Soil Science, Genetics and Plant Breeding, Plant Pathology, Agricultural Botany
- Occupational Techniques (Making of different types of Budding and



Grafting, hybridization)

- Knowledge of business and its economic, legal and social context

Website: <https://pstu.ac.bd/> **Field(s) of study:** Agriculture, forestry, fisheries and veterinary not elsewhere classified |

Level in EQF: EQF level 6 | **Type of credits:** Bangladeshi Credits System | **Number of credits:** 180

LANGUAGE SKILLS

MOTHER TONGUE(S): Bengali

OTHER LANGUAGE(S):

English

Listening B1

Reading B1

Writing B1

Spoken production A2

Spoken interaction A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

SKILLS

Microsoft Office | Microsoft Word | Microsoft Excel | manage teamwork | Basic R studio | Microsoft Powerpoint | Basic Graphic Designing (Canva) | Written & Verbal Communication Skills | Leadership and self-management skills. | Reference management softwares (Mendeley, Zotero and EndNote)

PUBLICATIONS

Aquaporins as Plant Stress Integrators: Coordinating Transport, Signaling, and Tolerance

Alam MM, Rafi A, Rahman MA, Mitu MA, Sakib MN, Rahman MA, et al. Aquaporins as natural stress integrator: coordinating transport, signals, and tolerance mechanisms in plants. Plant Cell Environ. 2026.

Application of Nanoparticles to Mitigate Abiotic Stress in Major Crop Species: A Review

Roy TK, Islam MS, Mahiddin NA, Hossain SA, Biswas T, Antu UB, et al. Application of nanoparticles (NPs) to ameliorate abiotic stress in economically important crop species: A potential review. J Crop Health. 2025;77(1):1–20

Plant development and heat stress: role of exogenous nutrients and phytohormones in thermotolerance

Angon PB, Das A, Roy AR, Khan JJ, Ahmad I, Biswas A, et al. Plant development and heat stress: role of exogenous nutrients and phytohormones in thermotolerance. Discover Plants. 2024;1(1):17.

Harnessing Plant Antioxidants and Genetic Engineering to Combat ROS under Abiotic Stress

Rahman MM, Ghosh PK, Akter M, Al Noor MM, Rahman MA, Keya SS, et al. Plant antioxidants, signaling, and genetic engineering to combat reactive oxygen species under multiple abiotic stresses. Plant Stress. 2024;100547.

Morpho-Physiological Assessment of Salinity Tolerance in Coastal Rice Landraces of Bangladesh

Somaddar U, Mim SK, Dey HC, Biswas A, Sarker UK, Uddin MR, et al. Assessment of seedling salinity tolerance of Bangladeshi coastal rice landraces using morpho-physiological stress indices. 2023.

Role of Exogenous ABA in Silicon Application in Alleviating Salinity Stress in Rice

Saha G, Somaddar U, Hassan Z, Khalil I, Dey HC, Biswas A. Role of exogenous ABA in silicon application in alleviating salinity stress in rice. 2022.

CONFERENCES & SEMINARS

24/01/2026 - 26/01/2026 University of Dhaka, Bangladesh



11th International Plant Tissue Culture & Biotechnology Conference

Link <https://www.baptcb.org/conference>

26/09/2025 - 27/09/2025 Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

6th International Conference on Biotechnology in Health and Agriculture

Link <https://conference.gnob.org/>

01/02/2025 - 01/02/2025 Sher-e-Bangla Agricultural University, Dhaka, Bangladesh

Annual Plant Tissue Culture & Biotechnology Conference & AGM 2024

Link <https://baptcb.org/conference>

21/06/2022 - 16/10/2022 Online Platform, UniV

2nd International Competition for Young Researchers 2022

Link <https://competition2.univbd.com/>

CONFERENCE PAPERS

24/01/2026 - 26/01/2026

Short-Term Waterlogging Effects on Morphology and Pigments of Summer Tomato (*Solanum lycopersicum* L.)

Link

https://www.researchgate.net/publication/400072749_Impact_of_Short-Term_Waterlogging_Stress_on_Plant_Morphology_Chlorophyll_and_Carotenoid_Content_of_Summer_Tomato_Solanum_lycopersicum_L

26/09/2025 - 27/09/2025

Rapid Identification of Phosphorus Use Efficient Rice Via Hydroponics

Link

https://www.researchgate.net/publication/399135783_Rapid_Identification_of_Phosphorus_Use_Efficient_Rice_Via_Hydroponics

21/06/2022 - 16/10/2022

The potential impact of food waste on global warming

Link https://www.researchgate.net/publication/366120972_The_potential_impact_of_food_waste_on_global_warming

RESEARCH EXPERIENCES

01/01/2025 - Current

Rapid Identification of Phosphorus Use Efficient Rice Via Hydroponics

To identify phosphorus-use-efficient rice genotypes and make a protocol for screening them.

15/10/2021 - 14/02/2022

In susceptible and salt-tolerant conditions, local rice and HYV rice grow rice and yield more.

This project mainly works in the rice sector. We try to compare local rice yield and growth with HYV rice yield and growth.

01/04/2021 - 01/07/2021

How to manage stress conditions and application of silicon in cotton.



This project mainly works in cotton. We try to find out the information on how to survive cotton and measure its yield and compare it with stress-free conditions in cotton.

RESEARCH INTEREST

- **Plant Stress Physiology Sustainable Agriculture and Food Security Nanoparticles Heavy Metals Micro-plastic Public Health**

TRAININGS AND WORKSHOPS

04/04/2024 - 06/04/2024

- **AI tools for academic research**

Link <https://abcdlabbd.org/trainees/20205042416/>

01/11/2023 - 15/11/2023

- **Basic Training About R programming**

16/08/2023

- **Quality Scientific Writing Using KSI Techniques**

20/03/2022

- **Scientific Poster Presentation Training**

04/07/2022 - 03/08/2022

- **Youth Summer School on Research and Academic Career**

Link <https://www.univbd.com/>

EXTRACURRICULAR ACTIVITIES

01/06/2023 - 01/02/2024

- **Former Assistant Director, Higher Education Unit, UniV**

Link <https://www.univbd.com/>

01/06/2022 - 01/06/2023

- **Former Research and Program Development Officer, IAAS Bangladesh PSTU**

Link <https://iaasbdpstu.org/>

01/05/2021 - 16/10/2021

- **Former Coordinator of ASAD (Advocacy for Sustainability in Agricultural Development)**

Link <https://www.facebook.com/asadyouth.org/>

VOLUNTEERING

01/12/2021 - 01/12/2022 Patuakhali Science and Technology University, Dumki, Patuakhali-8660

- **Former Publicity Editor, BADHAN Central Committee (Barishal Zone), PSTU**

Link <https://www.pstu.ac.bd/clubs/banndhn-pbiprbi-iunit-badhan-pstu-unit-brisal-jon>

01/01/2022 - 01/12/2023 Patuakhali

- **Former Committee Member, Volunteer for Bangladesh (VBD-Patuakhali District)**



Link <https://www.facebook.com/groups/vbdpatuakhli/>

NETWORKS AND MEMBERSHIPS

30/07/2025 - Current Dhaka

● **Global Network of Bangladeshi Biotechnologists.**

Link <https://www.gnobbb.org/>

HONOURS AND AWARDS

25/02/2023 International Association of Students in Agricultural and Related Sciences (IAAS)

● **1st Position, Case Solving program, International Conference for Youth and Agriculture (ICYA)**

Link

<https://www.facebook.com/events/hajee-mohammad-danesh-science-technology-university/icya-2023-asia-pacific/729176785588469/>

30/10/2022 UniV

● **Best Campus Ambassador**

Link <https://competition2.univbd.com/>

REFERENCES

● **Dr. Mahmudul Hassan, Professor, Department of Genetics and Plant Breeding, Patuakhali Science and Technology University, Dumki, Patuakhali-8660. mhassan@pstu.ac.bd**

Link <https://www.researchgate.net/profile/Md-Mahmudul-Hassan-6>

● **Dr. Gopal Saha, Professor, Department of Agronomy, Patuakhali Science and Technology University, Dumki, Patuakhali-8660. gopalagr@pstu.ac.bd**

Link <https://www.researchgate.net/profile/Gopal-Saha>